

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A data reproducing apparatus for receiving and reproducing data including event information and time information for executing an event, the data reproducing apparatus comprising:

a data receiving section capable of receiving a plurality of ~~kinds~~ types of data having event information different in attribute;

a data ~~asserting~~ sorting section for, while ~~making~~ referring to time information of each of the plurality of types of data received by said data receiving section, and asserting ~~sorting~~ respective ones of the plurality of types of data based on a kind by kind basis ~~data type~~ and the time it takes to execute an event of each of the plurality of types of data ~~each time~~ a timing of executing an event of each data comes;

a data reproducing section ~~provided correspondingly to kinds of data and for~~ executing an event recorded in each of the plurality of types of data ~~asserted~~ sorted by said data ~~asserting~~ sorting section thereby reproducing the relevant data; and

an output section for outputting ~~respective ones of~~ data reproduced by said data reproducing section.

2. (Currently Amended) A data reproducing apparatus according to claim 1, wherein the plurality of ~~kinds~~types of data comprise first data having MIDI event information and second data having event information of other than MIDI.

3. (Original) A data reproducing apparatus according to claim 2, wherein the second data includes data having text event information and data having image event information.

4. (Original) A data reproducing apparatus according to claim 3, wherein the second data further includes data having audio event information.

5. (Canceled).

6. (Currently Amended) A data reproducing apparatus for receiving and reproducing data including event information and time information for executing an event, the data reproducing apparatus comprising:

a data receiving section capable of receiving data having MIDI event information, data having text event information and data having image event information;

a data ~~asserting~~sorting section for, while referring to ~~making reference to~~ time information of each of the plurality of

types of data received by said data receiving section,—and
assortingsorting respective onesthe plurality of types of data
based on a kind by kind basis data type and the time it takes to
execute an event of each of the plurality of types of dataeach time
a timing of executing an event of each data comes;

a data reproducing section ~~provided correspondingly to kinds~~
~~of data and for~~ executing an event recorded in data ~~asserted~~sorted
by said data ~~assortingsorting~~ section thereby reproducing the
relevant data;

a first output section for outputting, as a sound, MIDI data
reproduced by said data reproducing section; and

a second output section for outputting, as visible
information, text and image data reproduced in said data
reproducing section.

7. (Original) A data reproducing apparatus according to claim
6, wherein said data receiving section is further capable of
receiving data having audio event information, said first output
section outputting, as a sound, MIDI and audio data reproduced by
said data reproducing section.

8. (Original) A data reproducing apparatus according to claim
7, having

a first mixer for mixing MIDI and audio data reproduced by said data reproducing section, and

a second mixer for mixing text and image data reproduced by said data reproducing section, wherein

said first output section outputs data mixed by said first mixer,

said second output section outputting data mixed by said second mixer.

9. (Currently Amended) A data reproducing method for receiving and reproducing data including event information and time information for executing an event, the data reproducing method comprising:

~~a step of receiving first data having MIDI event information and second data having event information of other than MIDI;~~

~~a step of making reference-referring to time information of each of the plurality of types of received data and assertingsorting respective ones of each of the plurality of types of data based on a kind by kind basis data type and the time it takes to execute an event of each of the plurality of types of data each time a timing of executing an event of each data comes;~~

~~a step of reproducing assertedsorted data due to execution of events recorded therein; and~~

~~a step of outputting respective ones of reproduced data.~~

10.-14. (Canceled).

15. (Currently Amended) A data reproducing apparatus for receiving and reproducing data including event information and time information for executing an event, the data reproducing apparatus comprising:

a data receiving section capable of receiving a plurality of ~~kinds~~ types of data having event information different in attribute;

a data ~~asserting~~sorting section for, while sequentially referring to ~~making reference to~~ time information of each of the plurality of types of data received by said data receiving section to determine data to be processed within a unit section having a predetermined time ~~width~~ duration and ~~asserting~~sorting, for each unit section, the relevant data based on a kind by kind basis data type;

a storage section for temporarily storing data ~~asserted~~sorted by said data ~~asserting~~sorting section based on a kind by kind basis data type;

a data reproducing section provided correspondingly to kinds of data and for sequentially reading out, in a next unit section, data at each unit section stored in said storage section and

executing an event recorded in each of data thereby reproducing the data; and

an output section for outputting respective ones of data reproduced by said data reproducing section.

16. (Currently Amended) A data reproducing apparatus according to claim 15, wherein said data ~~asserting~~sorting section ~~asserts~~sorts, for storage to said storage section, the data to be processed based on a ~~kind by kind basis~~data type in a last timing of a unit section,

said data reproducing section sequentially reading out, in a next unit section, data at the unit section ~~asserted~~sorted by said data ~~asserting~~sorting section to execute an event of the relevant data.

17. (Original) A data reproducing apparatus according to claim 16, wherein the time information is a delta time defined as a time of from an execution time point of a last-time event to an execution of an event in this time,

said data ~~asserting~~sorting section calculating a time ~~width~~duration of a process section that this-time data is to be processed from a difference between a time at present as a time at the last in a unit section and an execution time of a last event in a unit section precedent by one, and ~~asserting~~sorting and storing,

into storage section, unit-section data such that a sum of a delta time of each event in the relevant process section is fallen within a range of the time ~~width~~duration,

said data reproducing section reproducing unit-section data ~~asserted~~sorted by said data ~~asserting~~sorting section in a next unit section having a same time ~~width~~duration as the relevant unit section.

18. (Original) A data reproducing apparatus according to any of claims 15 to 17, wherein provided is a timing control section for controlling timings at a start and end of the unit section.

19. (Original) A data reproducing apparatus according to claim 18, wherein said output section has a function to count the number of output data to forward a control signal to said timing control section depending upon a count value thereof, said timing control section outputting a timing signal depending upon the control signal.

20. (Currently Amended) A data reproducing method for receiving and reproducing data including event information and time information for executing an event, the data reproducing method comprising:

~~a step of receiving~~ a plurality of kinds of data having event information different in attribute;

~~a step of making reference~~referring to time information of each of received data to determine data to be processed within a unit section having a predetermined time ~~width~~duration, and ~~asserting~~sorting, for each unit section, the relevant data based on ~~a kind by kind basis~~data type for temporary storage to a storage section;

~~a step of sequentially reading out~~, in a next unit section, data at each unit section stored in said storage section and executing an event recorded in the relevant data thereby reproducing the data; and

~~a step of outputting~~ respective ones of reproduced data.

21. (Original) A data reproducing apparatus for reproducing, while downloading, stream data according to claim 1 or 15, wherein said data receiving section has a buffer,

said data receiving section calculating a data transfer capacity J per unit time and a data consumption amount E per unit time on the basis of data first received,

where $J < E$, reproducing is started after caching an required amount of data to said buffer, while where $J > E$, reproducing being made while intermittently receiving data without carrying out caching.

22. (Original) A information terminal mounted with a data reproducing apparatus according to claim 1 or 15, wherein various ~~kinds~~ types of data are to be downloaded, the information terminal including a sound generating section for outputting sound on the basis of downloaded data and a display for displaying a text and image on the basis of the downloaded data.

23.-25. (Canceled).

26. (Previously Presented) An information terminal according to claim 22, wherein a small-sized information storage medium is to be attached and detached, to store downloaded MIDI music data, text words data and image jacket data to said information storage medium.

27. (Previously Presented) A data reproducing apparatus according to claim 3, wherein commercial information including text is to be received, the text data including an URL to be jumped to upon starting up a browser of the Internet and information for offering service to a homepage viewer of the URL.

28. (Previously Presented) An information terminal according to claim 22, wherein

having a cellular-phone function of outputting speech voice from said sound generating section and displaying a telephone number on said display, and

an accompaniment music being outputted from said sound generating section and displaying words and a background image being displayed on said display depending on downloaded data thereby making possible to utilization as a karaoke apparatus.